300 Watt Industrial



Features

- 3 x 5 x 1.5 inches
- Wide range AC input
- Remote sense & Remote On/Off
- Power Good & Class 1
- EMI Class B
- CE marked to LVD
- Now IEC/EN/UL62368-1 Compliant
- Approved with metal enclosures/accessories

NEW

Electrical Specifications				
Input Voltage	90-264 VAC/120-390 VDC, Universal			
Input Frequency	47–63 Hz			
Input Current	120 VAC: 3.2 A max.	230 VAC: 1.65 A max.		
No Load Power	0.8 W			
Inrush Current	120 VAC: 35 A max.	230 VAC: 65 A max.		
Leakage Current	120 VAC: < 150 μA	230 VAC: < 300 μA		
Efficiency	120 VAC: 88% typical	230 VAC: 92% typical		
Hold-up Time	120 VAC: 10 ms	230 VAC: 10 ms		
Power Factor	120 VAC: 0.98	230 VAC: 0.95		
Output Power	200 to 325 W			
Line Regulation	+/-0.5%			
Load Regulation	+/-2%			
Transient Response	< 10%, 50% to 100% load change, 50 Hz, 50% duty cycle, 0.1 A/µs, recovery time < 5 ms			
Rise Time	< 100 ms			
Set Point Tolerance	+/-1%			
Output Adjustability	+/-3%			
Over Current Protection	110 to 150%			
Over Voltage Protection	110 to 150%, autorecovery			
Short Circuit Protection	Short term, autorecovery			
Over Temperature Protection	110°C primary heat sink, autorecovery			
Switching Frequency	PFC converter: Fixed, 80 kHz typical Resonant converter: Variable, 35–250 kHz; 90 kHz typical			
Operating Temperature	-20 to +70°C, refer derating curve; -20 to 0°C, start-up is guaranteed			
Storage Temperature	-40 to +85°C			
Relative Humidity	95% Rh, noncondensing			
Altitude	Operating: 10,000 ft.; Nonoperating: 40,000 ft.			
MTBF	1.77m Hours, Telcordia -SR332-issue 3			
Isolation Voltage	Input to Output 4000 VAC/VDC			
Cooling	Convection: 140W max (5V model)			
	200W max (12V, 15V, 24V, 30V and 48V models)			
	With 300LFM : 200W max (5V model)			
	300W max (12V and 15V models)			
	325W max (24V, 30V and 48V models)			
Refer de-rating curves to determine output power over the entire operating temperature				

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Model Number	Power Supply	Power	Voltage	Max. Load	Max.Load
	Unit & its			(Convection)	(300 LFM)
	Installation Type		5 V	10.0 4	
LFWLT300-1000-CK	In CK cover Kit	98 W	5 V	19.6 A	-
LFWLT300-1000	In Open Frame	200 W	5 V 5 V	28.0 A	40.0 A
LFWLT300-1000-L	With L Bracket	200 W		28.0 A	40.0 A
LFWLT300-1000-B	With Base Plate	200 W	5 V	28.0 A	40.0 A
LFWLT300-1000-U	With U channel	200 W	5 V	28.0 A	40.0 A
LFWLT300-1001-CK	In CK cover Kit	140W	12 V	11.67 A	-
LFWLT300-1001	In Open Frame	300 W	12 V	16.67 A	25.0 A
LFWLT300-1001-L	With L Bracket	300 W	12 V	16.67 A	25.0 A
LFWLT300-1001-B	With Base Plate	300 W	12 V	16.67 A	25.0 A
LFWLT300-1001-U	With U channel	300 W	12 V	16.67 A	25.0 A
LFWLT300-1002-CK	In CK cover Kit	140W	15 V	9.33 A	-
LFWLT300-1002	In Open Frame	300 W	15 V	13.33 A	20.0 A
LFWLT300-1002-L	With L Bracket	300 W	15 V	13.33 A	20.0 A
LFWLT300-1002-B	With Base Plate	300 W	15 V	13.33 A	20.0 A
LFWLT300-1002-U	With U channel	300 W	15 V	13.33 A	20.0 A
LFWLT300-1003-CK	In CK cover Kit	140W	24 V	5.83 A	-
LFWLT300-1003	In Open Frame	325 W	24 V	8.33 A	13.54 A
LFWLT300-1003-L	With L Bracket	325 W	24 V	8.33 A	13.54 A
LFWLT300-1003-B	With Base Plate	325 W	24 V	8.33 A	13.54 A
LFWLT300-1003-U	With U channel	325 W	24 V	8.33 A	13.54 A
LFWLT300-1004-CK	In CK cover Kit	140 W	48 V	2.92 A	-
LFWLT300-1004	In Open Frame	325 W	48 V	4.17 A	6.77 A
LFWLT300-1004-L	With L Bracket	325 W	48 V	4.17 A	6.77 A
LFWLT300-1004-B	With Base Plate	325 W	48 V	4.17 A	6.77 A
LFWLT300-1004-U	With U channel	325 W	48 V	4.17 A	6.77 A
LFWLT300-1005-CK	In CK cover Kit	140 W	30 V	4.67 A	-
LFWLT300-1005	In Open Frame	325 W	30 V	6.67 A	10.83 A
LFWLT300-1005-L	With L Bracket	325 W	30 V	6.67 A	10.83 A
LFWLT300-1005-B	With Base Plate	325 W	30 V	6.67 A	10.83 A
LFWLT300-1005-U	With U channel	325 W	30 V	6.67 A	10.83 A



Pin Connections					
J1	Pin 1	AC LINE			
	Pin 2	AC NEUTRAL			
Spade Connector (J4)		EARTH			
J2	Pin 1	RTN			
	Pin 2	V1			
J3	Pin 1	REMOTE ON/OFF			
	Pin 2	RTN			
	Pin 3	VFAN (+12 V/0.5 A)			
	Pin 4	-VE REMOTE SENSE			
	Pin 5	VSTBY (+5 V/2 A, +/-5%)			
	Pin 6	+VE REMOTE SENSE			
	Pin 7	RTN			
 \	Pin 8	POWER GOOD			

Notes

- 1. Peak current rating on main output is 120% of max., lasting < 30 s with a maximum 10% duty cycle.
- 2. Ripple is peak to peak with 20 MHz bandwidth and 10 µF (Electrolytic capacitor) in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
- 3. Combined output power of main output, fan supply and standby supply shall not exceed max. power rating.
- 4. Standby output voltage tolerance including set point accuracy, line and load regulation is +/-10%. Ripple and noise is less than 5%.
- 5. Fan supply output voltage tolerance including set point accuracy, line and load regulation is +/-30% and needs min. 1% load on main output to be within regulation band. Ripple and noise is less than 10%.
- 6. Specifications are for nominal input voltage, 25°C unless otherwise stated.
- 7. PSU is supplied with J3 housing, pin-1 and pin-2 shorted to enable main output without remote on/off feature.
- 8. Derate output power linearly to 80% from 90 VAC to 80 VAC input.
- 9. Power good signal cannot be used as a current source. Internal pull up resistor from PG signal to 5V is 10K. It is recommended to use external transistor if intended to source current.

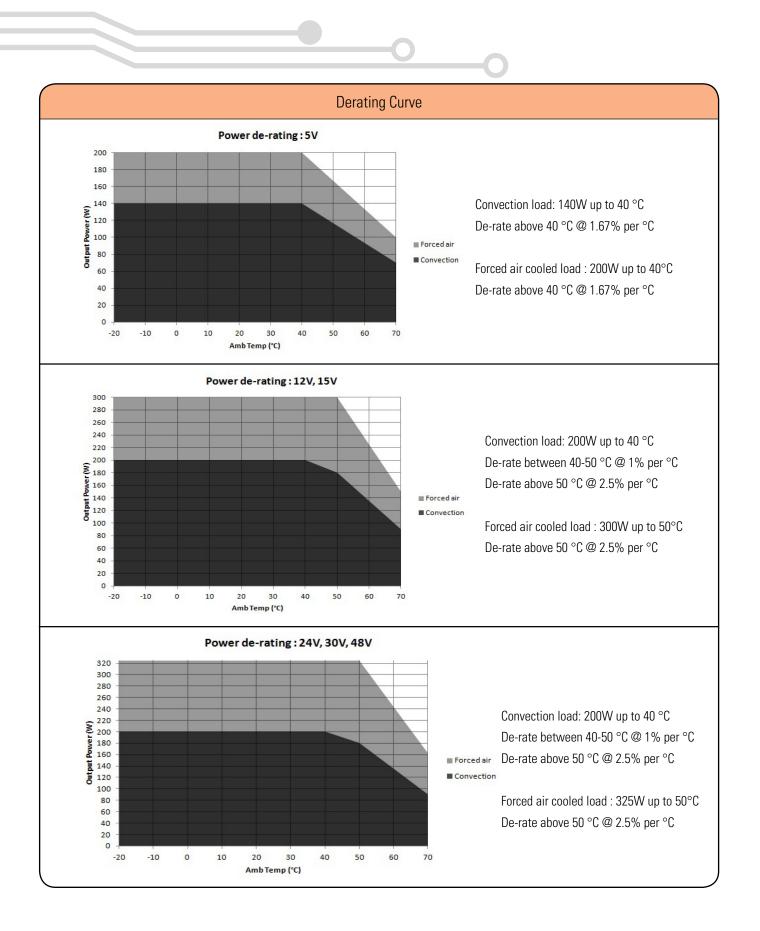
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- 10. The de-rating curves are valid for input voltages of 115VAC to 264VAC. Below 115VAC to 90VAC the convection rating is 180 Watts maximum.
- 11. When used in Cover Kit, de-rate output power to 70 % under all operating conditions.

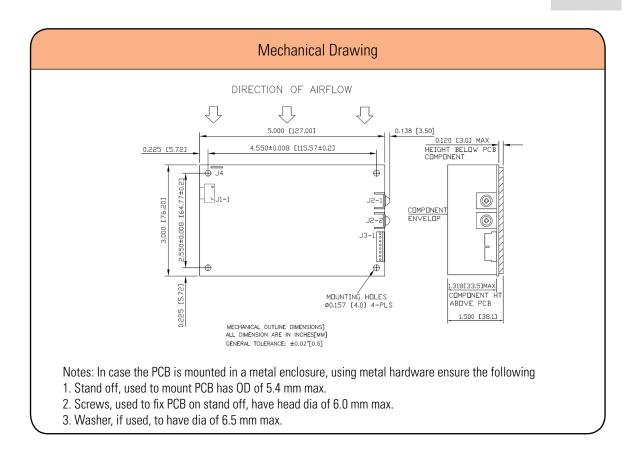


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	Mechanical Specifications			
AC Input Connector (J1) Molex: 26–60–4030				
	Mating: 09-50-3031; Pins: 08-50-0106			
EARTH (J4)	Molex: 19705-4301			
	Mating: 190030001			
DC Output Connector (J2)	6-32 inches Screw Pan HD			
	Mating: Designed to accept Ring Tongue Terminal AMP : 8-31886-1,			
	wherein one 16 AWG(max) wire can be crimped.			
	Note : One Ring Tongue Terminal with 16 AWG is recommended for current upto 11A only.			
	e for more current.			
Signal Connector (J3)	Molex: 22–23–2081			
	Mating: 22-01-2087; Pins: 08-50-011	Mating: 22-01-2087; Pins: 08-50-0113		
Dimensions				
	(76.2 x 127.0 x 38.0 mm)			
Weight	450 g			
	EMC			
Parameter	Conditions/Description	Criteria		
Conducted Emissions	EN55032-B, CISPR22-B, FCC PART15-B	Pass		
Radiated Emissions	EN 55032 A	Pass		
	Level B with external core (King core K5	B RC 25x12x15-M in input cable)		
Input Current Harmonics	EN 61000-3-2	Class D		
Voltage Fluctuation and Flicker	EN 61000-3-3	Pass		
ESD Immunity	EN 61000-4-2	Level 3, Criterion A		
Radiated Field Immunity	EN 61000-4-3	Level 3, Criterion A		
Electrical Fast Transient Immunity	EN 61000-4-4	Level 3, Criterion A		
Surge Immunity	EN 61000-4-5	Level 3, Criterion A		
Conducted Immunity	EN 61000-4-6	Level 3, Criterion A		
Magnetic Field Immunity	EN 61000-4-8	Level 3, Criterion A		
Voltage dips, interruptions	EN 61000-4-11	Criterion A & B		
	Safety			
CE Mark	Complies with LVD Directive			
Approval Agency	Nemko, UL			
Safety Standard(s)	IEC 62368-1:2014, EN 62368-1:2014;A11, UL 62368-1 and CAN/CSA C22.2 No. 62368-1-14			
Safety File Number(s)	CB : N0107429, Nemko : P19223724, UL : 20191011-E150565			
	Signal			
Power Good Signal	TTL signal goes high after main output is within regulation band, delay is 0.1 to 0.3 s (see note)			
Remote Sense	Compensates for 200 mV drop			
Remote on/off		To turn on PSU short remote pin to ground		

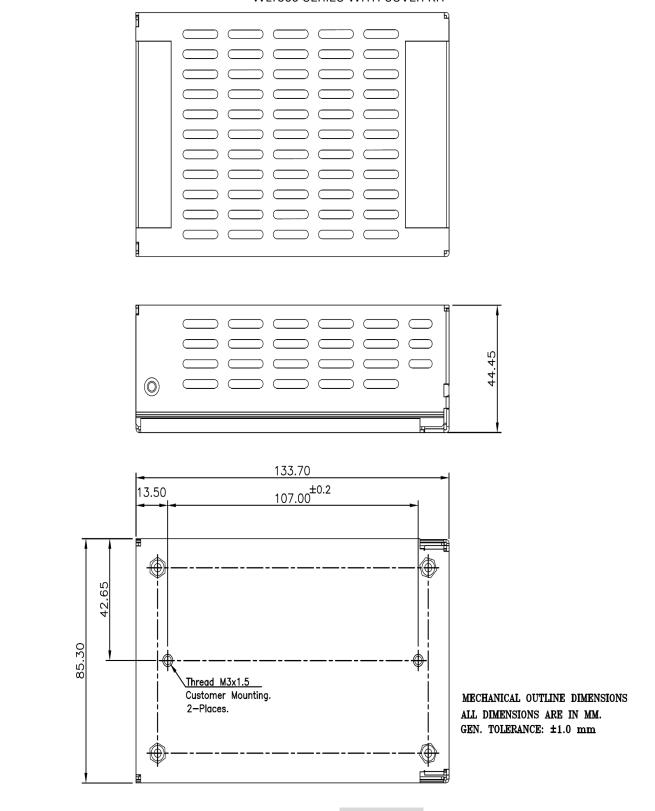


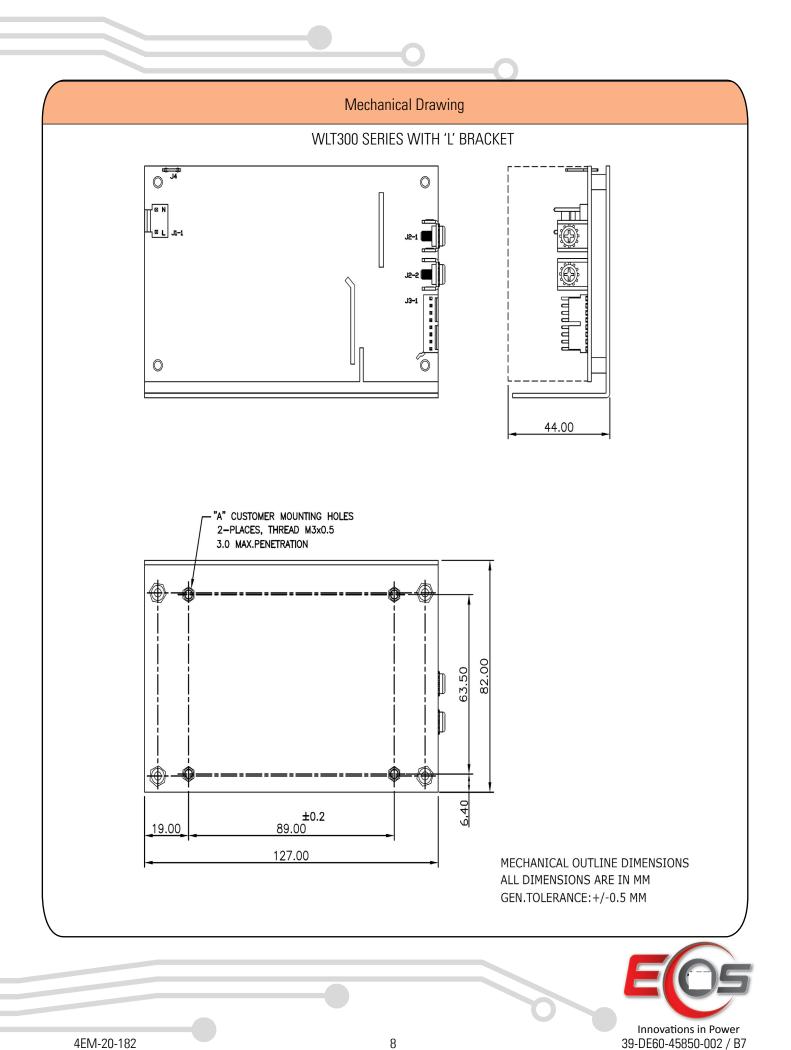


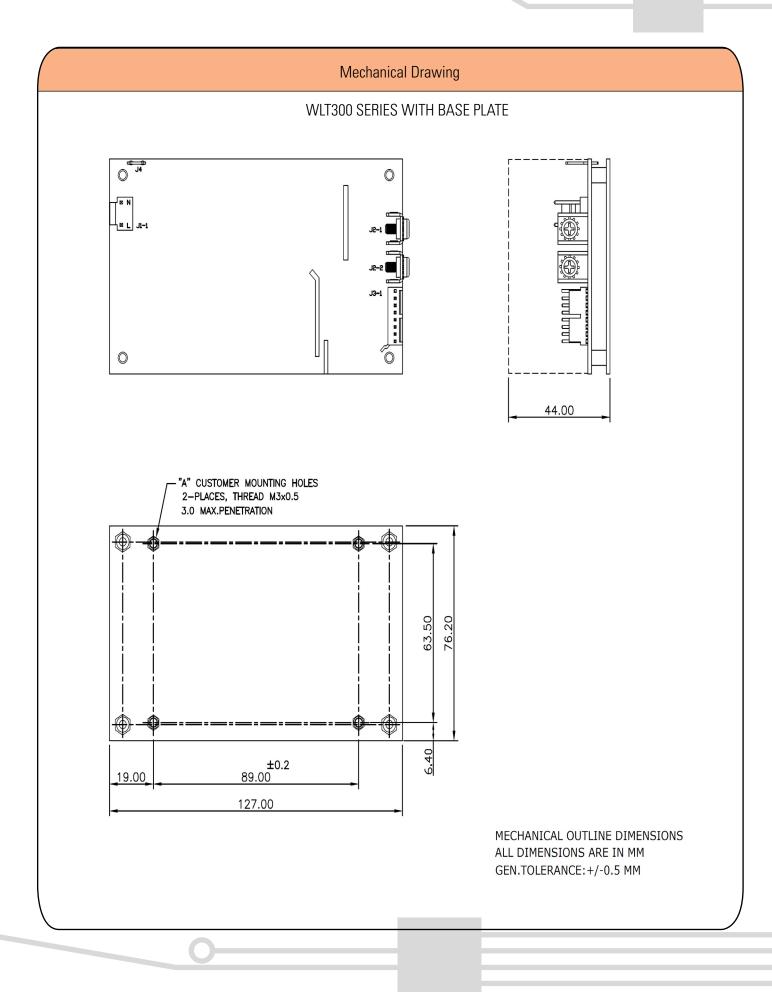


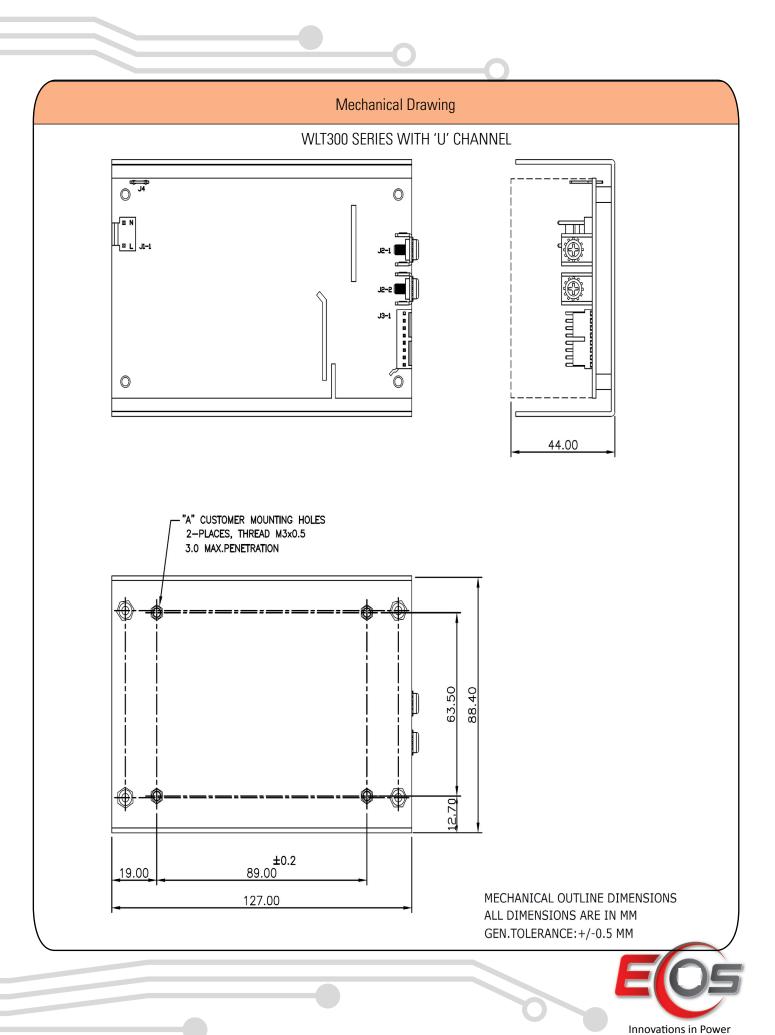
Mechanical Drawing

WLT300 SERIES WITH COVER KIT









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